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Notice of Allowability	Application No.	Applicant(s)	
	10/656,883	HORITA ET AL.	
	Examiner	Art Unit	
	Hung T. Vy	2821	
The MAILING DATE of this communication apportant All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED) or other appropriate comming IGHTS. This application is and MPEP 1308.	in this application. If not included nunication will be mailed in due course. TH Is	
<u></u>	<u>011 47 13/2003</u> .		
2. X The allowed claim(s) is/are <u>1-3,5-9 and 11-13</u> .			
3. The drawings filed on <u>08 September 2003</u> are accepted by	y the Examiner.		
4. ☑ Acknowledgment is made of a claim for foreign priority una) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be subminsFORMAL PATENT APPLICATION (PTO-152) which give 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be comply including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the complex contents and the deposition of the complex contents and the deposition of the complex contents and the deposition of the deposition of the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents and contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the contents are application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in th	e been received. e been received in Application and the communication to full MENT of this application. Initial Note the attached Exes reason(s) why the oath st be submitted. In the submitted of the submitted	ion No ed in this national stage application from the le a reply complying with the requirements (AMINER'S AMENDMENT or NOTICE OF or declaration is deficient. ew (PTO-948) attached or in the Office action of the drawings in the front (not the back) of iFR 1.121(d).	•
attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of	nformal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<u></u>	Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	Paper No 08), 7. ⊠ Examiner	./Mail Date <u>5/27/2005</u> .s Amendment/Comment s Statement of Reasons for Allowance	
		WILSON LEE PRIMARY EXAMINER	

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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

- 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The following claim has been amended upon agreement by applicant during a telephone conversation with Mr. Phillip J. Articola on 05/25/2005.

Cancel claims 4 and 10.

In claim 11, line 1, the phase "claim 4" has been changed to -claim 1--.

Amendments to claims 1 and 9:

1. (Currently Amended) A mobile phone antenna, comprising:

a first conductive radiation element that is formed in a sheet metal conductor and resonates at a predetermined resonance frequency;

a second conductive radiation element that is formed in the sheet metal conductor and resonates at the predetermined resonance frequency; <u>and</u>

a ground that is connected through a conductive ground connector with said second conductive radiation element;

wherein said ground is placed such that said ground is not opposed to said first and second conductive radiation elements, and

wherein said second conductive radiation element functions as a ground,

wherein said ground includes: a first ground that is connected through said conductive ground connector with said second conductive radiation element; and a second ground that is connected through a conductive inter-ground connector with said first ground, said second ground being capable of rotating in the range of a predetermined angle from a position that said second ground faces in parallel to said first ground,

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wherein said conductive inter-ground connector is positioned under said second conductive radiation element when said second ground rotates by said predetermined angle, wherein said conductive inter-ground connector has a first bend portion at a first end thereof, a straight middle portion, and a second bend portion at a second end thereof, and wherein the first bend portion is directly connected to said first ground and said second bend portion is directly connected to said second ground.

- 9. (Currently Amended) A mobile phone antenna for folding type mobile phone with a pair of housings foldable, comprising:
 - a first ground that is installed in one of said pair of housings;
- a second ground that is installed in the other of said pair of housings, said second ground being connected through a conductive inter-ground connector with said first ground;

first and second conductive radiation elements that are disposed at a position where said first and second conductive radiation elements are not opposed to said first and second ground, said first and second conductive radiation element resonating at a predetermined resonance frequency, and

a conductive ground connector that electrically connects said first ground with said second conductive radiation element,

wherein said second conductive radiation element functions as a ground,

wherein said second ground is capable of rotating in the range of a predetermined angle from a position that said second ground in parallel to said first ground,

wherein said conductive inter-ground connector is positioned under said second conductive radiation element when said second ground rotates by said predetermined angle,

wherein said conductive inter-ground connector has a first bend portion at a first end thereof, a straight middle portion, and a second bend portion at a second end thereof, and

wherein said first bend portion is directly connected to said first ground and said second bend portion is directly connected to said second ground.

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Reasons for Allowance

3. Claims 1-3, 5-9 and 11-13 are allowed

The following is an examiner's statement of reason for allowance:

None of the references of record teaches or suggests the claimed a mobile phone antenna, comprising, along with all the other claimed feature, ground includes: a first ground that is connected through said conductive ground connector with said second conductive radiation element; and a second ground that is connected through a conductive inter-ground connector with said first ground, said second ground being capable of rotating in the range of a predetermined angle from a position that said second ground faces in parallel to said first ground, wherein said conductive inter-ground connector is positioned under said second conductive radiation element when said second ground rotates by said predetermined angle, wherein said conductive inter-ground connector has a first bend portion at a first end thereof, a straight middle portion, and a second bend portion at a second end thereof, and wherein the first bend portion is directly connected to said first ground and said second bend portion is directly connected to said second ground.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung VY whose telephone number is (571) 272-1954. The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DON WONG can be reached on (571) 272-1834. The fax numbers for the organization where this application or proceeding is

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assigned are (703) 872-9306 for regular communications and (703) 308-7722 for After Final communications.

Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private Pair or Public Pair. Status information for unpublished applications is available through Private Pair only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung T. Vy Art Unit 2821 May 27, 2005

PRIMARY EXAMINER

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